

INTERNATIONAL SEARCH REPORT

International application No.
PCT/KR2004/001814

A. CLASSIFICATION OF SUBJECT MATTER

IPC7 H03H 9/56

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

H03H*

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
KR, JP : IPC as aboveElectronic data base consulted during the international search (name of data base and, where practicable, search terms used)
eKIPASS, PAJ, FPD, USPAT

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|-----------|-----------------------------------------------------------------------------------------------------|-----------------------|
| Y | JP 2002-198758 A (SAMSUNG ELECTRO MECH CO LTD) 12 JULY 2002 See [0023] ~ [0026] , Fig.2(A)~2(D). | 8, 9 |
| A | | 1 - 7, 10 - 16 |
| Y | JP 62-168410 A (VICTOR CO OF JAPAN LTD) 24 JULY 1987 See the whole document, and Fig.1, 3. | 8, 9 |
| A | JP 5-275963 A (OKI ELECTRIC IND CO LTD) 22 OCTOBER 1993 See abstract, and Fig. 1. | 8, 9 |

 Further documents are listed in the continuation of Box C. See patent family annex.

* Special categories of cited documents:
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 "P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
 "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
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 "&" document member of the same patent family

Date of the actual completion of the international search
01 NOVEMBER 2004 (01.11.2004)

Date of mailing of the international search report

02 NOVEMBER 2004 (02.11.2004)Name and mailing address of the ISA/KR

 Korean Intellectual Property Office
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INTERNATIONAL SEARCH REPORT
Information on patent family members

International application No.
PCT/KR2004/001814

| Patent document cited in search report | Publication date | Patent family member(s) | Publication date |
|----------------------------------------|------------------|----------------------------------|--------------------------|
| JP 2002-198758 A | 12/07/2002 | KR 2001-0019757 A KR 398363 B | 15/06/2002 02/09/2003 |
| JP 62-168410 A | 24/07/1987 | | |
| JP 5-275963 A | 22/10/1993 | | |